

2 Williams Street
Chelsea, MA 02150
(617) 889 - 6515



INSPECTORATE

QUALITY CERTIFICATE

Vessel	"KTC-90"	Port	Boston, MA	Report	112104
Customer	Sprague Energy	Date	November 16, 2004	Reference	
Operation	Analysis	Terminal	Sprague Energy, Quincy	Sample #	308408

Name of material being tested
Description of sample source
Samples Drawn by (company)
Samples Tested by (company)

6 Fuel Oil

Shore Tank#11 After Discharge
Inspectorate America Corp.
Inspectorate America Corp.

Tests being Performed	Test method	Sample Results
Gravity API @ 60 F	D - 4052	12.5
Flash Point, PMCC, F	D - 93	165
Viscosity cSt @ 122 F	D - 445	188.7
Viscosity SFS @ 122 F	D - 1261	89.53
Pour Point, F	D - 97	27
Sulfur, wt %	D - 4294	0.484
Water & Sediment, vol %	D - 1796	0.2
Gross Heat of Combustion, BTU / lb	D - 240	18,451
Gross Heat of Combustion, BTU / gal	D - 240	150,990
Compatability	D - 4740	1
Ash wt %	D - 482	0.056
Aluminium, ppm	IP-377	41
Silicon, ppm	IP-377	70
Vanadium, ppm	D - 5863	89
Sodium, ppm	D - 5863	31
Nitrogen, wt%	D - 5762	0.35
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** Annotates Analysis Contracted Out